

CLAIMS

What is claimed is:

1. A communication system comprising a first communication apparatus and a second communication apparatus, wherein

the first communication apparatus comprises:

means for generating a signal including known pilot symbols; and

means for transmitting the signal, and

the means for generating varies a ratio of the pilot symbols in the signal in accordance with a transmission rate of the signal, and

the second communication apparatus comprises:

means for receiving the signal; and

means for carrying out coherent detection by using the pilot symbols included in the signal.

2. The communication system as claimed in claim 1, wherein the first communication apparatus is a base station and the second communication apparatus is a mobile station, or the first communication apparatus is a mobile station and the second communication apparatus is a base station.

3. A communication apparatus comprising:

means for generating a signal including known pilot symbols; and

means for transmitting the signal,

wherein the means for generating varies a ratio of the pilot symbols in the signal
in accordance with a transmission rate of the signal.

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4. A communication apparatus comprising:
means for receiving a signal including known pilot symbols;
means for carrying out coherent detection by using the pilot symbols included in
the signal,
wherein a ratio of the pilot symbols in the signal varies in accordance with a
transmission rate of the signal.

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